PRODUCT INFORMATION PACKET

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Model No: TCN0112A1121GAC010 Catalog No: TCN0112A1121GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160M Frame, TEFC



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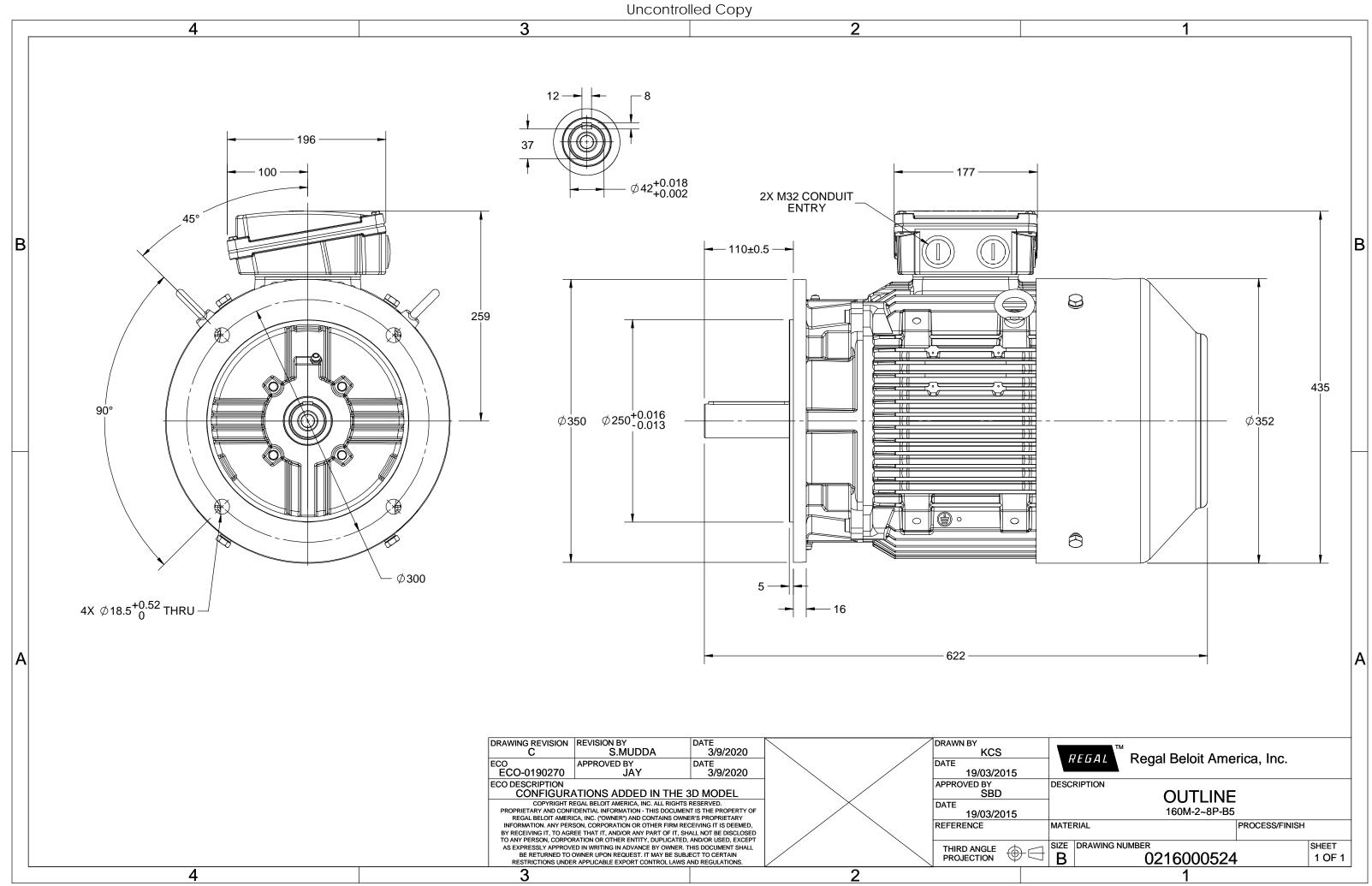
Nameplate Specifications

Phase	3	Output HP	15 Hp
Output KW	11.0 kW	Voltage	400 V
Speed	1475 r/min	Service Factor	1
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.4 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	20.7 A	Power Factor	0.84
Duty	S1	Insulation Class	F
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000524

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3 of 7





TerraMAX[®]

Model No. TCN0112A1121GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	at loa	d	PF	at_l	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	11	15	20.7	1475	72.41	IE3	-	91.4	91.4	90.6	0.84	0.78	0.66	7.3	2.5	3.3
					TON											IP 55		
Motor					TCN TEFC						protectio	on				IP 55 IM B5		
Enclos										unting f								
	Materia	I			Cast Ir 160N					oling me						IC 411 153		
Frame	size					/1					ght - app							kg
Duty					S1					0	ht - appi	°OX.				173 0.1200		kg
U	e variatio				± 10%					tor iner								kgm ²
	ency varia				± 5%					d inerti	-				Cust	omer to Provi	de	
	ned varia	ation *			10%					ration le						2.2		mm/s
Design					N						•	r distanc		,		64		dB(A)
	efactor				1.0							old/Equa	lly sprea	ad		2/3/4		
	ion class				F					rting me						DOL		
	nt tempe				-20 to +			°C		e of co	1 0					Direct		
	erature ri	• •		ce)	80 [Clas			K				hot/colc)			10/20		S
	e above				1000			meter			of rotatio	n			_	i-directional		
Hazard	lous area				Ex n/					ndard r					Cloc	ckwise form D	θE	
	Zone cla		tion		Zone	2				nt shad	-					RAL 5014		
	Gas gro	•			IIC				Acc	essorie								
	Temper	rature o	class		Т3						essory -					PTC 150°C		
Rotor t	type				uminum l						essory -					-		
Bearin	g type				Anti-frictio					Acc	essory -	3				-		
DE / N	DE beari	ng			09-2Z /				Ter	minal b	ox positi	on				TOP		
Lubrica	ation me	thod		(Greased f	or life			Ma	ximum	cable siz	e/condu	it size	16	x 3C x 3	35mm²/2 X M	32 x 1.5	
Туре о	f grease				NA				Aux	kiliary te	erminal b	юх				NA		

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical dat	ta are subject to	o change. There may be slight vari	ations between calculate	d values in this datashe	et and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC

Standards	IEC:60034-30-1	-	-	GEMS 2019	-	IEC:60034-30-1

13		

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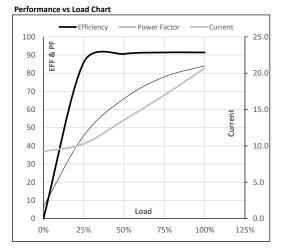


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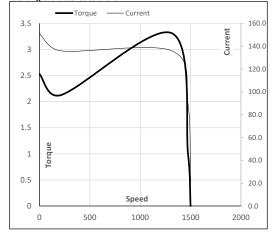
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	153
	400	4	50	11	15	20.7	1475	7.50	72.41	TL3	40	51	1000	0.12	

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	9.2	10.3	13.6	17.0	20.7	
Torque	Nm	0.0	17.9	35.9	54.1	72.4	
Speed	r/min	1500	1494	1488	1482	1475	
Efficiency	%	0.0	85.9	90.6	91.4	91.4	
Power Factor	%	6.6	45.7	66.0	78.0	84.0	



Starting Characteristics Chart



Motor Speed Torque Data Load Point LR P-Up BD Rated NL Speed r/min 0 214 1315 1475 1500 151.0 135.9 89.2 20.7 9.2 Current Α 2.5 2.1 3.3 1 0 Torque pu

NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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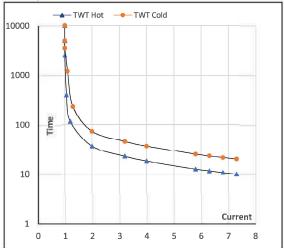


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Enclosure	U	Δ/Υ	f	Р	Р	1	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	153

Motor Spee	u loig	FL	4	l,	h	I ₄	l,	LR
Louu		16	'1	-12	'3	'4	-5	
TWT Hot	S	10000	37	26	19	16	13	10
TWT Cold	s	10000	73	49	37	34	27	20
Current	pu	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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